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Patentanmeldung Nr. Patent application No. Demande de brevet n°

00870163.3

Der Präsident des Europäischen Patentamts;  
Im Auftrag

For the President of the European Patent Office

Le Président de l'Office européen des brevets  
p.o.

I.L.C. HATTEN-HECKMAN

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**Blatt 2 der Beschreibung  
Sheet 2 of the certificate  
Page 2 de l'attestation**

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N. E. Way S.A.  
1000 Bruxelles  
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Method of transferring data being stored in a database

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METHOD OF TRANSFERRING DATA BEING STORED IN A DATABASE10 Field of the invention

[0001] The present invention is related to telecommunications and company-wide communication. More particularly, the present invention is related to a new method of transferring data by using a mobile telephone.

15 Actually the present invention is related to a method of sending data from a sender to a recipient and to a method of retrieving data, belonging to an owner by a recipient, the data being any kind of digital information stored on a database.

20

State of the art

[0002] Nowadays the convergence between mobile telephone systems and Internet is a growing trend.

[0003] The so called 'Web based communication  
25 centers' are websites offering a series of services that can be accessed by the Web and/or by the mobile phone : for example E-mail, storage and sharing of data, links towards other sites, synchronization between the information contained in the site and those on the hard disk. These  
30 websites manage on the Net both the information necessary for the owner's activities, and the data to be shared with others. This kind of cohabitation makes the consultation of information difficult since it requires the creation of user groups and various levels of securitized access. The

wireless access capabilities are restricted to web-enabled (WAP) phones, which allow the checking of the E-mail account, and the sending of E-mails. Normal mobile phones cannot be used in such a scheme. The sending of E-mail  
5 from the mobile requires the awkward operation of entering an E-mail address on the WAP-phone.

[0004] Another type of existing application is a 'Mailbox manager'. This is a service wherein an electronic mailbox is provided to the customer, said mailbox being  
10 shared between the customer's PC and mobile phone. An E-mail account is created which can be accessed from any mobile phone. SMS messages (Short Message Service) can be sent between mobile phones.

[0005] A general drawback of the existing services  
15 is the fact that normal mobile phones cannot be used to send large data. Such transfer is limited to short messages.

#### Aims of the invention

20 [0006] The present invention aims to use the convergence between mobile telephone systems and the Internet to transfer data, with the use of any kind of mobile phone.

#### 25 Summary of the invention

[0007] The present invention is related to a method of sending data which are stored in a database from a sender to a recipient, both of which are mobile phone users, in relationship with a managing software  
30 application, called 'manager', said database and said manager being in connection with the web/portal site of the sender's mobile operator, characterized in that said method comprises the following steps :

- the sender enters into connection with the manager and identifies himself to the manager,
- the sender transfers an identifier to said manager, said identifier comprising at least the recipient's mobile phone number,
- 5       - the manager associates one address with said identifier which can be recognized and accessed by the recipient.

[0008]           According to a preferred embodiment, said  
10 identifier comprises furthermore a code related to a selection in the database of the data to be transmitted, said manager associating said data to be transmitted to the address which can be recognized and accessed by the recipient.

15 [0009]           According to one embodiment of the method of sending data according to the present invention, said manager associates the recipient's E-mail address with said identifier, and said method comprises the step of the manager sending an E-mail to said recipient, said data  
20 being attached to said E-mail, said step being applied in case the recipient's E-mail address is known by the manager, i.e. is listed in a central database.

[0010]           According to another embodiment of the method of sending data according to the present invention, said  
25 manager associates a URL address with said identifier, and said method comprises the step of the manager sending an SMS message comprising said URL address to the recipient's mobile phone, said URL address offering access to a web page comprising said selected data, said URL address being  
30 parameterized with the recipient's mobile phone number, said step being applied in case the recipient's E-mail address is not known by the manager.

[0011] According to one embodiment of the method of sending data according to the present invention, said URL is securitized by a login password which is communicated to the recipient by way of said SMS message.

5 [0012] According to one embodiment of the method of sending data according to the present invention, the sender uses a WAP mobile phone.

[0013] The present invention is equally related to a method of retrieving electronic data belonging to the owner  
10 of said data who is affiliated to a mobile phone operator, by a recipient who is a mobile phone user, said data being stored in a database, in relationship with a managing software application, called 'manager', said database and said manager being in connection with the web/portal site  
15 of the data owner's mobile operator, towards a recipient, characterized in that said method comprises the following steps :

- the recipient enters into connection with the manager by sending an identifier to said manager, said  
20 identifier allowing said manager to identify said owner,
- the manager identifies the recipient through his mobile phone number,
- the manager associates one address with the  
25 recipient's mobile phone number, which can be recognized and accessed by the recipient.
- the recipient receives said data.

[0014] According to one embodiment of the invention, said recipient may add a code to said identifier, said code  
30 being related to a selection of the electronic data to be transmitted, said manager associating said data to be transmitted to the address which can be recognized and accessed by the recipient.



[0015] According to one embodiment of the method of retrieving data according to the present invention, said manager, after identifying said recipient, immediately sends a SMS or a vocal message comprising a summary of the data of the owner to said recipient's mobile phone.

[0016] According to one embodiment of the method of retrieving data according to the present invention, the manager associates the recipient's E-mail address with the recipient's mobile phone number, and said method comprises the step of the manager sending an E-mail to said recipient, said data being attached to said E-mail, said step being applied in case the recipient's E-mail address is known to the manager, i.e. listed in a central database.

[0017] According to another embodiment of the method of retrieving data according to the present invention, the manager associates a URL address with the recipient's mobile phone number, and said method comprises the step of the manager sending an SMS message comprising said URL address to the recipient's mobile phone, said URL address offering access to a web page comprising said data, said URL address being parameterized with the recipient's mobile phone number, said step being applied in case the recipient's E-mail address is not known to the manager.

[0018] According to one embodiment of the method of retrieving data according to the present invention, said URL is securitized by a login password which is communicated to the recipient by way of the SMS message comprising said URL.

[0019] According to one embodiment of the method of retrieving data according to the present invention, the recipient uses a WAP mobile phone. In that case, the recipient may gain direct access to the data owner's WAP site.

Short description of the drawings

[0020] Fig. 1 illustrates the method of sending data (files) according to the invention in case the sender of data (files) and the recipient are both subscribers to a service offering the method of the invention and both are  
5 affiliated to the same mobile operator.

[0021] Fig. 2 illustrates the method of sending data (files) according to the invention in case the sender of data (files) and the recipient are both subscribers to a  
10 service offering the method of the invention and both are affiliated to different mobile operators.

[0022] Fig. 3 illustrates the method of sending data (files) according to the invention in case the recipient is not a subscriber to a service offering the method of the  
15 invention, but is affiliated to the sender's mobile operator.

[0023] Fig. 4 illustrates the method of sending data (files) according to the invention in case the recipient is not a subscriber to a service offering the method of the  
20 invention, but is affiliated to a different mobile operator than the sender's, said mobile operator providing the service.

[0024] Fig. 5 illustrates the method of sending data (files) according to the invention in case the recipient is  
25 not a subscriber to a service offering the method of the invention, but is affiliated to a different mobile operator than the sender's, said mobile operator not providing the service.

[0025] Fig. 6 illustrates the method of retrieving  
30 data (files) according to the invention.

Detailed description of several embodiments of the present invention

[0026] The method of the present invention preferably exists in the form of a service, which is offered to the public via the Internet. Persons subscribing to said service are allowed the possibility to register a number of data in a database, in connection with the web/portal site of their mobile operator. Any type of electronic file may be sent with the method of the invention : wordprocessor data, spreadsheets, images, sound, etc...

[0027] Subscribing to the service, they can choose one or both of two variants of the method of the invention, which will after this be called 'sending of data' and 'retrieval of data'.

- sending : This allows the subscriber to use his mobile phone or any other mobile phone or a fixed phone in order to send data to any user of a mobile phone. By phoning the service, the subscriber can send a selection of these data to the recipient.
- retrieval : this allows anyone to access - by way of his mobile phone - a predefined amount of information owned by the subscriber.

[0028] The method is devised in such a way that the person receiving the information does not have to be a subscriber to the service, nor must his or her mobile operator provide the service. The method makes sure that any mobile phone user can receive the selected information. Both variants will be explained in more detail in the following. Figures 1 to 5 describe different modes of operation of the method of sending of data. The 'service' as such is shown in all these diagrams as a central block 21, comprising a central database 22 and an independent

website 16. The database 22 stores the E-mail addresses and mobile phone numbers of all subscribers, independently of their mobile operator.

[0029] Blocks 10, 20 and 30 represent web/portal sites of three mobile operators. The first and second (10,20) provide the service that allows the use of the method of the invention. The last portal 30 doesn't. This distinction is indicated by the presence of a managing application 12 and database 14 in connection with the first two portals.

[0030] The heart of the invention lies in the managing application, or 'manager' 12, which is a software application allowing the encoding, management and distribution of the data. The database 14 contains all information pertinent to all subscribers affiliated to that particular mobile operator : mobile phone number, E-mail address, and the data they want to send.

### Sending of data

#### 20 1. Subscribing

[0031] A person who wishes to subscribe to this variant of the method will log on to the web/portal site of his mobile operator. If he wants to be able to use the service to send data (files), his mobile operator must provide the service, in other words, his mobile operator's portal must contain a manager 12 and database 14. If this is the case, he can select a GUI (Graphical User Interface) on his operator's web/portal site. In the GUI, the subscriber is asked to enter his E-mail address and mobile phone number.

30 He will have the opportunity to store a number of data onto the database 14. If he owns a normal mobile phone, he is allowed a maximum of ten data. If he owns a WAP phone, he may choose a virtually limitless number of data.

## 2. Sending data

[0032] In all diagrams 1 to 5, the sender starts by calling the service at a number which is common to all subscribers to the service who are affiliated to the same mobile operator. The sender is identified by the manager 12 of his operator, simply by his own mobile phone number. If he calls from another mobile phone or from a fixed phone, he is asked to enter a security code. The sender then transmits an identifier 2 which is routed to the manager 12 of his own mobile operator's portal 10. The identifier 2 comprises the recipient's phone number and possibly a code relating to a selection of the data the sender wishes to transmit.

15 The manager 12 will then check whether or not the recipient is registered in the central database 22. Depending on this, different modes of operation are possible.

Case 1 : The recipient is registered in the database 22 and has the same mobile operator as the sender : figure 1

[0033] This means that the recipient's E-mail address is also stored in the local database 14. In this case, the manager 12 recognizes the recipient, finds his or her E-mail address in the database 14 and sends an E-mail 3 with the selected data attached to the recipient's PC 18.

Case 2 : the recipient is registered in the database 22 and has a different mobile operator than the sender : figure 2

[0034] After failing to find the recipient in the database 14, the manager consults the central database 22, which lists all subscribers affiliated to the service of each operator. In the case of figure 2, the recipient has the mobile operator with portal 20. The web site 16 then

routes the E-mail 3 with the selected data attached towards the recipient's PC 18.

Case 3 : the recipient is not registered in the database 22  
5 and has the same mobile operator than the sender : figure 3  
[0035] The manager now fails to find the recipient's E-mail address in the central database 22. Therefore, the manager 12 places the contents of the selected data on a Web page 15 and assigns a URL (Uniform Resource Locator or  
10 Web address page) to it, said URL being parameterized with the mobile telephone number of the recipient, meaning that the recipient's mobile phone number is comprised in said URL. Since both sender and recipient have the same mobile operator, the second level domain name of the URL is  
15 defined by the operator.

[0036] To inform the recipient of this URL, the manager sends an SMS message 4 to the recipient's mobile phone 5, mentioning the sender's name and the URL address and possibly a login password, allowing the recipient to  
20 download the selected data 6 to his PC 18. The fact that the URL comprises the recipient's telephone number is a mnemonic aid for the recipient, facilitating his access to the selected data on the Internet.

25 Case 4 : the recipient is not registered in the database 22 and has a different mobile operator than the sender, but his mobile operator does provide the service : figure 4

[0037] Again, the recipient's E-mail address is not  
30 found in the databases 14 and 22. The recipient's web/portal site 20 does however provide the service. The independent web site 16 now routes the links 7 of the selected data to a web page 17, with a URL parameterized with the recipient's mobile phone number. Said URL's

second level domain name is defined by the recipient's operator 20. An SMS message 4 is once again sent to the recipient's mobile phone 5, informing him of the URL of web page 17, containing said links, so that he is capable of  
5 downloading the selected data 6 to his PC 18.

Case 5 : the recipient is not registered in database 22 and has a different mobile operator than the sender, which does not provide the service : figure 5

10 [0038] The independent web site 16 now creates the URL 19, which is parameterized with the recipient's mobile phone number, in the name of the independent site itself. The manager sends an SMS 4, containing said URL, so that the recipient may retrieve the selected data 6 to his PC  
15 18.

If no code was added to the recipient's phone number in the identifier 2, a predefined E-mail is sent to the recipient without attachments, for example comprising the sender's  
20 personal info (case 1 or 2). If the recipient's E-mail address is not listed in the central database 22 (cases 3,4,5), the contents of the predefined E-mail are included on the web page (15, 17 or 19).

### 25 3. Example of data transmitted

[0039] As an example, a procedure is provided hereafter which might be used for sending data in case 3 described above, in which the recipient is not a subscriber to the service, but has a mobile operator who provides the  
30 service. The method pertains to the use by the sender of an ordinary mobile phone. Only the encoding sequence is pertinent, the encoding dialog will be determined by the technology being used (Interactive vocal responder, SIM tool kit, WAP server,...) :

- The sender calls the service (if possible via a *Short Code*).
- His call allows him to be identified by way of his mobile telephone number; if that is not the case, the voice server or a message asks him to insert his security code followed by two squares.
- He enters the identifier 2 : +32476233805\*23##. The first part of this identifier is the recipient's mobile phone number. Then the sender enters a code relating to a selection of the data to be transmitted : he taps the '\*' key, followed by numbers 2 and 3, indicating that he wishes the recipient to receive data n°2 and n°3. The list of 10 data is encoded by numbers 0 to 9.
- The manager 12, upon not recognizing the recipient, sends an *SMS* 4 to the recipient's mobile telephone indicating the sender's name, the recipient's *URL* and possibly his login password. In the case of the exemplary recipient with number +32476233805, the *URL* would be : [www.mobileoperator.com/32476233805](http://www.mobileoperator.com/32476233805).
- The recipient may download the data, through his web browser, by entering the *URL* from any Internet terminal.

[0040] The web page to which the *URL* points may contain links from various senders.

[0041] The sender may wish to send the predefined E-mail to the recipient, without attached documents. In that case, he may tap in +32476233805##.

[0042] The sender may reach multiple recipients by tapping in the following identifier 2 :  
+32476233805#+33608198216\*123##.



## Retrieval of data

### 1. Subscribing

[0043] On the web/portal site of his mobile operator, the subscriber may select a second GUI offering him the chance to put a predefined amount of information (files) at the disposal of the public. By subscribing, he is provided with a mobile phone number, which may be used from any mobile phone in order to receive the information the subscriber has stored.

10 [0044] In the GUI, the subscriber may select the sending of an SMS or a vocal message to any one wishing to receive the information. This is further explained after this.

### 2. File retrieval

15 [0045] This operation is triggered not by the owner of the information, but by the one wishing to receive it, i.e. the recipient. To be able to do this, the recipient calls the number attributed to the owner upon subscription (see point 1). For example, a recipient may be presented with this number next to a house for sale. Calling the number will provide him with the information (prices, description, etc...) as it was selected by the owner. Figure 6 shows the relevant diagram in case the recipient is registered in the database 22 and has the same operator as the information owner.

25 [0046] The recipient calls the telephone number 40 which was assigned to the owner upon subscription. This allows the manager 12 to identify the owner. The manager 12 identifies the recipient by way of his mobile telephone number. If he calls from his mobile phone, which is the preferred case, this identification is done by the call itself. According to a preferred embodiment of the invention, the manager 12 of the owner's mobile operator 10

then immediately responds by sending a message 41 to the recipient's mobile phone. This message 41 can be an SMS or a vocal message depending on what the subscriber has selected. In both cases, the message 41 provides the  
5 recipient with a summary of the information. The manager detects that the recipient is in fact listed in the database 14 and sends an E-mail 42 to the recipient's PC, with the information in attachment.

[0047] In all other cases (recipient registered and  
10 having another operator, etc...) the SMS or vocal message is sent. After that, each case is handled in the same way as described in the variant 'sending of data'.

[0048] The subscriber may also provide the possibility for the recipient to select which data he wishes to  
15 receive. Preferably, this selection consists of a number of pages of a single web site, which contains the totality of the information the owner puts at the recipient's disposal. By entering a number of digits after the number, the recipient may then select the data. For example, if  
20 the number made public next to a house of sale is +32476253698 and the recipient wishes to receive page 23, he should call +32476253698\*23. Of course, the owner must provide with the number to call, the contents and the number associated with each page.

25 [0049] Using the WAP (Wireless Application Protocol) the service based on the method according to the invention is further facilitated.

Some differences arise with the above explained variants of the method, if the subscriber or the recipient uses a WAP  
30 phone :

- *sending of data from a WAP phone :*

[0050] the subscriber who wishes to transmit a selection of data now calls his mobile operator's WAP server. From a menu, he is able to select the file

transmitting service, which will enable him to enter the recipient's mobile phone number. After this, the sending of the information takes place in the same way as described above.

5       - file retrieval using a WAP phone :

[0051]       The person wishing to receive information calls his mobile operator's WAP server, if his operator provides the service. If not, he follows the relevant procedure described above for a normal phone. If his  
10   operator provides the service, he can select that service from a menu and enter the telephone number assigned to the owner upon subscription. If the subscriber owns a WAP site, the recipient is allowed direct access to this site, giving him immediately a summary of the complete  
15   information. If not, the procedure with the summary SMS or vocal message is pursued. In any case, the recipient receives afterwards the complete information in one of the ways described above (E-mail or URL), depending on whether or not he is known to the manager.

20   [0052]       Whenever the recipient is not a subscriber to the service, and has to download the selected data from a web page (15, 17 or 19), he is provided on said page with an inscription form to allow him to enter his E-mail address, so as to simplify the transfer later on. This  
25   means that such a recipient may from that moment on receive data directly in his mailbox, in the manner shown in figures 1 or 2. However, as long as he does not subscribe, he cannot send data himself. Naturally, in order for the recipient to use the service himself, the recipient's  
30   mobile operator must provide it.

[0053]       The web page on which the recipient is to retrieve the selected data can be securitized by recording a login password, which is communicated to the recipient via the SMS message 4.

[0054] The independent web site 16 lists all subscribers affiliated to each mobile operator providing the service. The information pertinent to the subscribers of each operator is of course compartmentalized within the  
5 central database 22 and remains the operator's property.

[0055] The manager access is restricted so that only the subscriber can create, modify or distribute his data, except notification thereof.

[0056] The method of the invention provides an  
10 improvement with respect to existing services, in that it allows the sending or retrieving of large electronic data being initiated from any type of mobile phone. No change of E-mail address is required or addition of another E-mail address. The method is easy to use. Management of  
15 security is simplified : only the owner of the information manages its distribution; only the recipient decides upon the access to his personalized URL.

[0057] A particular advantage of the method of retrieving data according to the invention resides in the  
20 fact that the owner of the data can identify the persons who have accessed his WAP site.

[0058] Various applications of the method of the invention are possible. As an example, the method can be used as an electronic way of transmitting business cards.  
25 The contents of the sender's business card are stored in one of the data in the database 14. By entering the code 2, the card owner can command the transmittal of his card to a recipient of his choice, whether or not this recipient or his mobile operator are subscribing to the service. In  
30 addition to his business card, the sender may add price lists, images, information folders, etc.

CLAIMS

1. Method of sending data which are stored in a database (14) from a sender to a recipient, both of which are mobile phone users, in relationship with a managing software application, called 'manager' (12), said database (14) and said manager (12) being in connection with the web/portal site (10) of the sender's mobile operator, characterized in that said method comprises the following steps :

- 10     - the sender enters into connection with said manager (12) and identifies himself to said manager,
- the sender transfers an identifier (2) to said manager (12), said identifier comprising at least the recipient's mobile phone number,
- 15     - the manager (12) associates one address with said identifier (2) which can be recognized and accessed by said recipient.

2. Method according to claim 1 wherein said identifier (2) comprises furthermore a code related to a selection in the database (14) of the data to be transmitted, said manager associating said data to be transmitted to said address which can be recognized and accessed by the recipient.

3. Method according to claim 1 or 2, wherein said manager associates the recipient's E-mail address with said identifier (2), said method comprising the step of the manager (12) sending an E-mail (3) to said recipient, said data being attached to said E-mail, said step being applied in case the recipient's E-mail address is known to the manager, i.e. is listed in a central database (22).

4. Method according to claim 1 or 2, wherein said manager associates a URL address with said identifier (2), said method comprising the step of the manager (12)

5 sending and SMS message (4) comprising said URL address to the recipient's mobile phone (5), said URL address offering access to a web page (15, 17, 19) comprising said data, said URL address being parameterized with the recipient's mobile phone number, said step being applied in case the recipient's E-mail address is not known to the manager.

5. Method according to claim 4, wherein said URL is securitized by a login password which is communicated to the recipient by way of said SMS message.

10 6. Method according to any one of claims 1 to 5, wherein the sender uses a WAP mobile phone.

7. Method of retrieving data being stored in a database (14), and belonging to an owner who is affiliated to a mobile phone operator, by a recipient who is a mobile phone user, in relationship with a managing software application, called 'manager' (12), said database and said manager being in connection with the web/portal site (10) of said owner's mobile operator, towards a recipient, characterized in that said method comprises the following steps :

- the recipient enters into connection with the manager by sending an identifier (40) to said manager, said identifier allowing said manager to identify said owner,
- 25 - said manager identifies the recipient through his mobile phone number,
- said manager associates one address with the recipient's mobile phone number which can be recognized and accessed by said recipient.

30 8. Method according to claim 7, wherein said recipient adds a code to said identifier (40), said code being related to the selection of the data to be transmitted, said manager associating said data to be

transmitted to said address which can be recognized and accessed by the recipient.

9. Method according to claim 7, wherein said manager (12), after identifying said recipient, immediately  
5 sends a message (41) comprising a summary of the data of the owner to said recipient's mobile phone (5).

10. Method according to claim 9 wherein said message (41) is an SMS message.

10 11. Method according to claim 9 wherein said message (41) is a vocal message.

12. Method according to any one of claims 7 to 11, wherein said manager associates the recipient's E-mail address with said mobile phone number, said method comprising the step of the manager sending an E-mail (42)  
15 to said recipient, said data being attached to said E-mail, said step being applied in case the recipient's E-mail address is known to said manager (12), i.e. listed in a central database (22).

13. Method according to any one of claims 7  
20 to 11, wherein said manager (12) associates a URL address with said mobile phone number, said method comprising the step of the manager (12) sending an SMS message (4) comprising said URL address to the recipient's mobile phone (5), said URL address offering access to a web page (15,  
25 17, 19) comprising said data, said URL address being parameterized with the recipient's mobile phone number, said step being applied in case the recipient's E-mail address is not known to said manager (12).

14. Method according to claim 13, wherein  
30 said URL is securitized by a login password which is communicated to the recipient by way of said SMS message (4), comprising said URL.

15. Method according to any one of claims 7 to 14, wherein said recipient uses a WAP mobile phone.

16. Method according to claim 15, wherein said recipient gains direct access to a WAP site owned by said data owner.



ABSTRACTMETHOD OF TRANSFERRING DATA BEING STORED IN A DATABASE

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The present invention is related to a method of sending or retrieving data which are stored in a database (14), in relationship with a managing software application, or  
10 'manager' (12), in connection with the web/portal site (10) of the mobile operator of the owner of said data, a central database (22) and an independent web site (16), characterized in that the sending or receiving is preferably initiated from a mobile phone.

15

(Figure 1)

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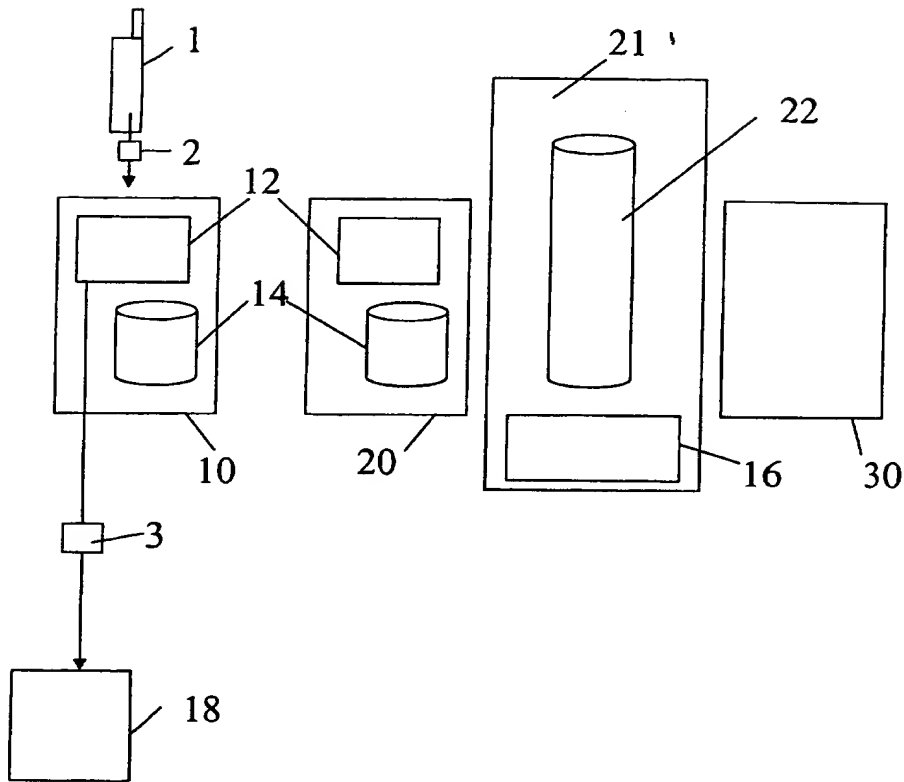


FIG. 1

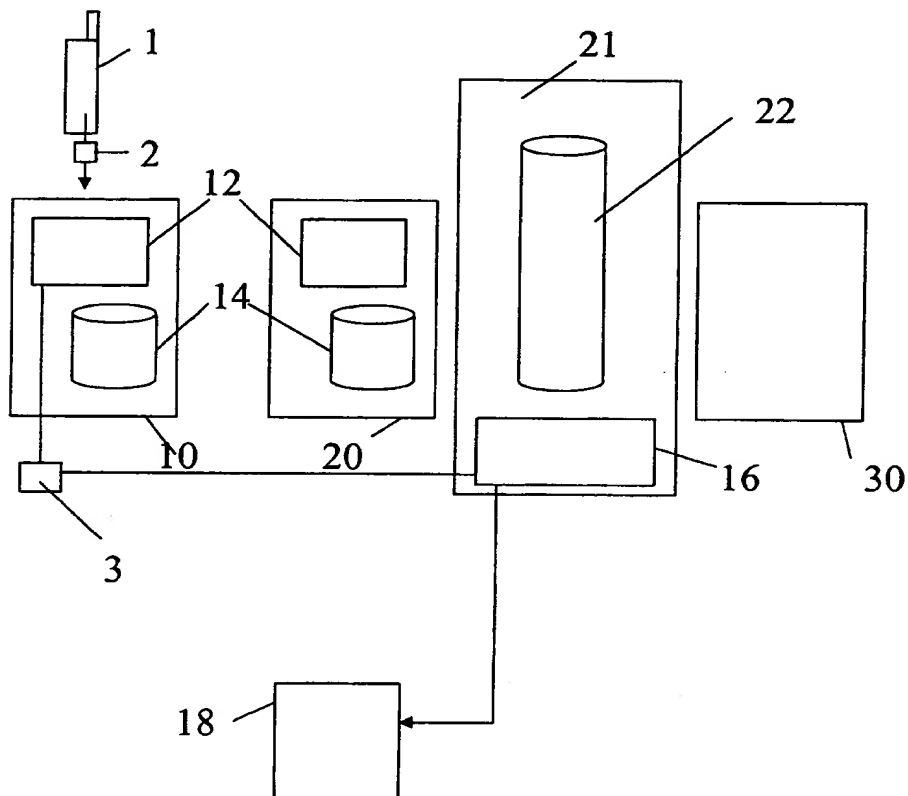


FIG. 2

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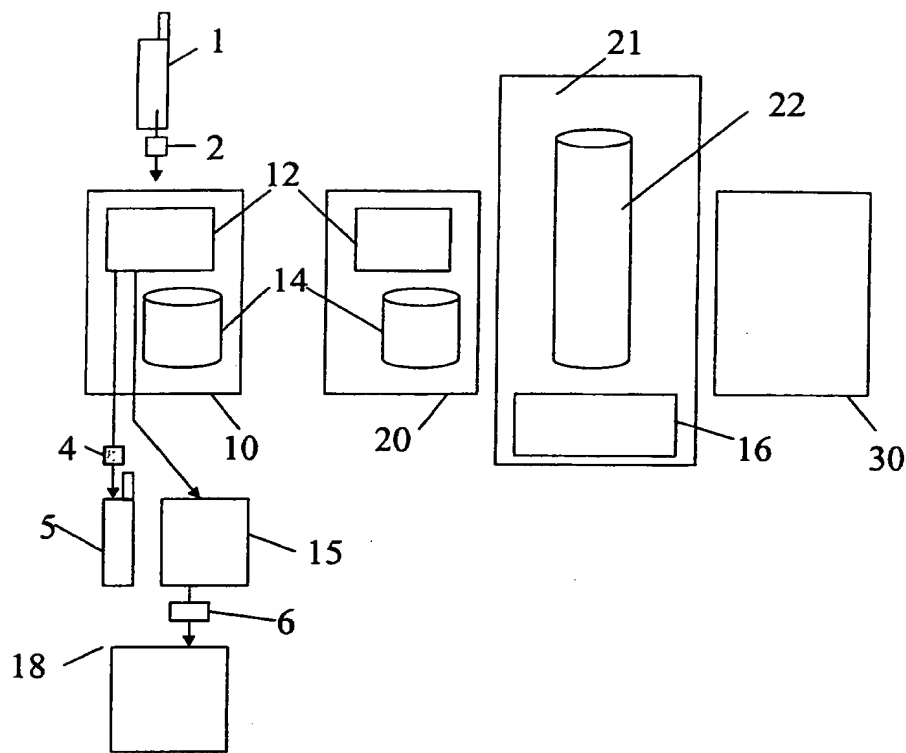


FIG. 3

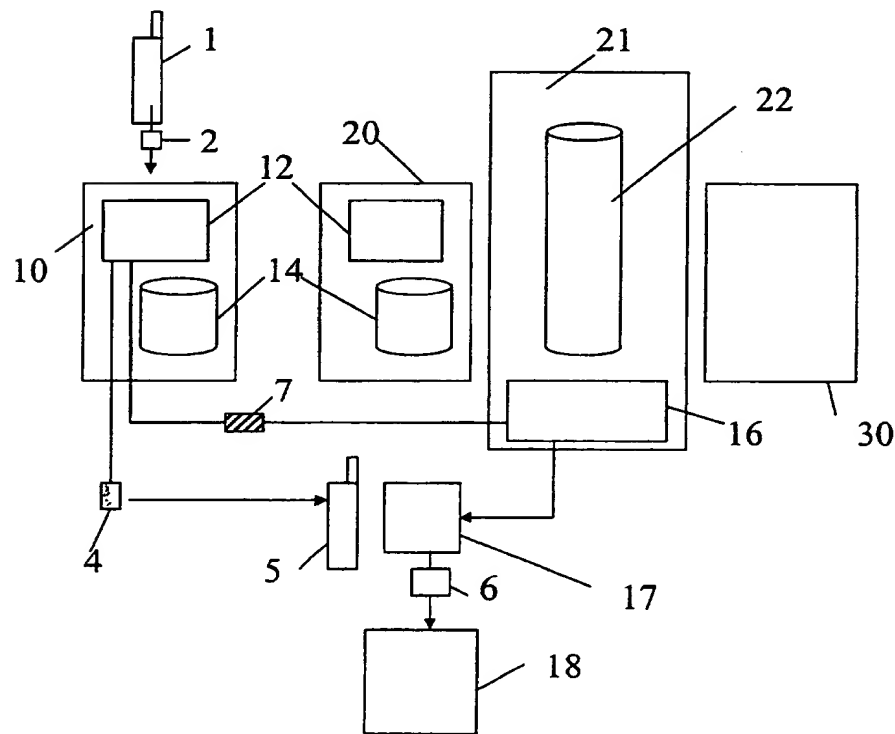


FIG. 4

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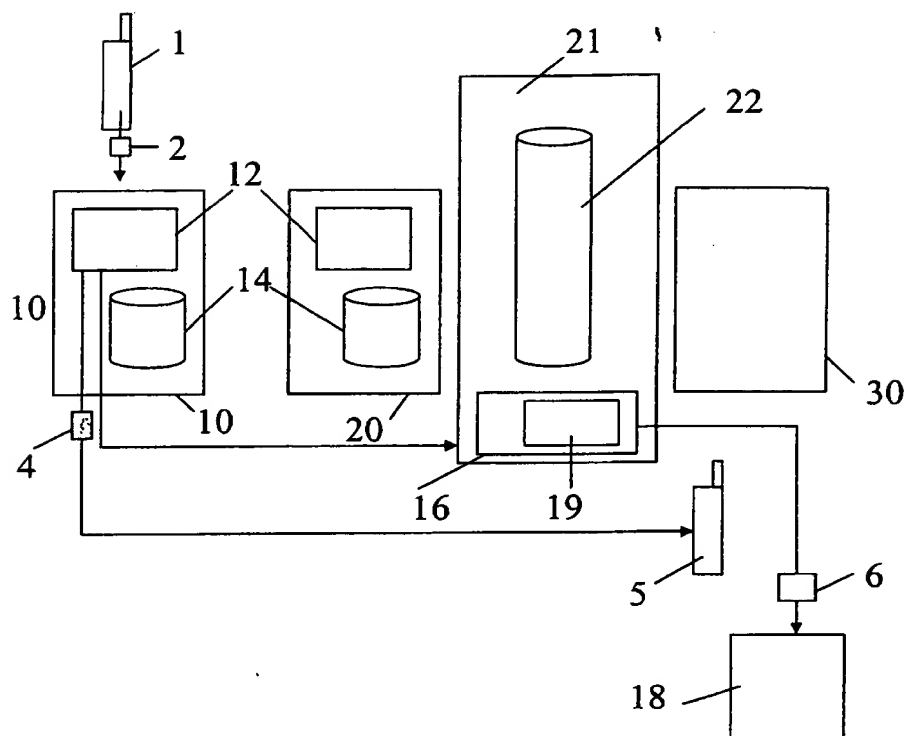


FIG. 5

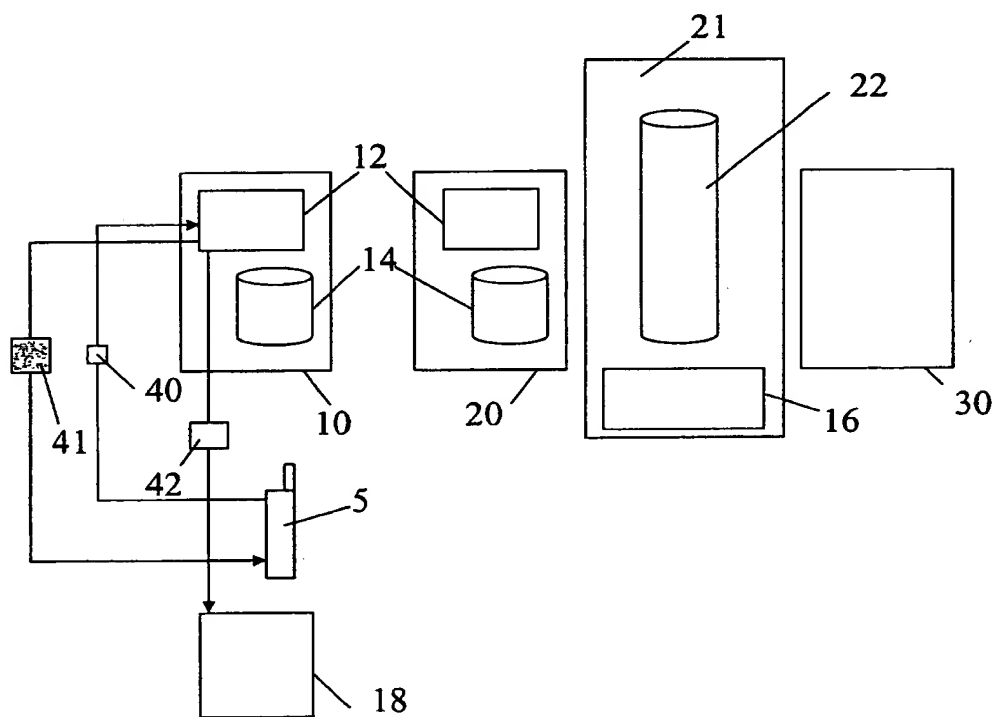


FIG. 6

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